

YURKINA, V.I.; KAS'YANENKO, V.G. [Kas'ianenko, V.H.], akademik, otv. red.;  
MARKEVICH, O.P. [Markevych, O.P.], akademik, red. toma; PIDOPlichKO,  
I.G. [Pidoplichko, I.H.], doktor biol. nauk, red.; VOINSTVENSKIY,  
M.A. [Voinstvens'kyi, M.A.], doktor biol. nauk: PANASENKO, M.D.,  
red. izd-va, red.; ROZENTSVEYG, Ye.N., tekhn. red.

[Fauna of the Ukraine in forty volumes] Fauna Ukrainy; v soroka  
tomakh. Red. kollegiia: V.G.Kas'ianenko ta inshi. Kyiv, Vyd-vo  
Akad. nauk URSR. Vol.17, no.4. [Fleas] Blokhi. 1961. 151 p.  
(MIRA 15:6)

1. Akademiya nauk USSR (for Kas'yanenko, Markevich).  
(Ukraine--Fleas)

ZHDANOV, Dmitriy Arkad'yevich, doktor med. nauk, prof., red.;  
ZAZYBIN, Nikolay Ivanovich, zasl. deyatel' nauki, doktor  
med. nauk, prof., red.; KAS'YANENKO, Vladimir Grigor'yevich,  
doktor nauk, prof., akademi, red.; MIKHAYLOV, Vladimir  
Pavlovich, doktor biol. nauk, prof., red.; SHEL'NIKOV,  
Rafail Davidovich, doktor med. nauk, prof., red.; TORSKAYA,  
Iya Vladimirovna, kand. biol. nauk, st. nauchn. sotr., red.;  
SHCHELKUNOV, Serafim Ivanovich, doktor nauk, prof., red.

[Transactions of the Sixth All-Union Congress of Anatomists,  
Histologists and Embryologists] Trudy Vsesoyuznogo s"ezda  
anatomov, gistologov i embriologov. Khar'kov, M-vo zdravo-  
okhraneniia SSSR. Vol.2. 1961. 791 p. (MIRA 16:12)

1. Vsesoyuznyy s"yezd anatomov, gistologov i embriologov.  
6th, Kiev, 1958. 2. Chlen-korrespondent AN SSSR (for Shchelnunov,  
Zhdanov, Zazybin). 3. Akademiya nauk Ukr.SSR i Institut zo-  
ologii AN UkrSSR (for Kas'yanenko).

(Continued on next card)

ZHDANOV, Dmitriy Arkad'yevich --- (continued). Card 2.

4. Institut eksperimental'noy meditsiny AMN SSSR (for Mikhaylov). 5. Kafedra normativnoy anatomii Khar'kovskogo meditsinskogo instituta (for Sinel'nikov). 6. Institut fiziologii im. A.A.Bogomol'tsa AN Ukr.SSR (for Torskaya).  
(ANATOMY--CONGRESSES)  
(HISTOLOGY--CONGRESSES)  
(EMBRYOLOGY--CONGRESSES)

PUCHKOV, V.G.[Puchkov, V.H.]; MARKEVICH, O.P.[Markevych, O.P.],  
akademik, red. toma; KAS'YANENKO, V.G.[Kas'ianenko, V.H.],  
akademik, glav. red.; PIDOPLICHKO, I.G.[Pidoplichko, I.H.],  
doktor biol. nauk, red.; BOSHKO, G.V.[Boshko, H.V.], kand.  
biol. nauk, red.; PANASENKO, M.D., red. izd-va; RAKHLINA,  
N.P., tekhn. red.

[Fauna of the Ukraine; in forty volumes]Fauna Ukrainy; v soroka  
tomakh. Red.V.H.Kas'ianenko ta inshi. Kyiv, Vyd-vo Akad. nauk  
URSR. Vol.21 [Coreoidea] Kraiovyky. No.2. Puchkov, V.H. 1962.  
161 p. (MIRA 15:7)

1. Akademiya nauk USSR (for Kas'yanenko, Markevich).  
(Ukraine--Coreoidea) (Ukraine--Leeches)

LUKIN, Ye.I.; KASYANENKO, V.G.[Kas'ianenko, V.H.], akademik, glav. red.;  
MARKEVICH, O.P.[Markevych, O.P.], akademik, red.; PIDOPLICHKO, I.G.  
[Pidoplichko, I.H.], red.; VOINSTVENSKIY, M.A.[Voinstvens'kyi, M.A.]  
doktor biol. nauk, red.; BOSHKO, G.B.[Boshko, H.V.], kand. biol.nauk,  
red.; PANASENKO, M.D., red. izd-va; ROZENTSVEYG, Ye.N., tekhn. red.

[Fauna of the Ukraine; in forty volumes]Fauna Ukrainy; v soroka  
tomakh. Red. kol. V.H.Kas'ianenko ta inshi. Kyiv, Vyd-vo Akad.nauk  
URSR. Vol.30 [Leeches; external and internal structure, ecology,  
taxonomy, distribution and practical significance of leeches]  
P'iavky; zovnishnia i vnutrishnia budova, ekologiya, systematyka,  
poshyrennia ta praktychne znachennia p'iavok. 1962. 195 p.

(MIRA 15:7)

1. Akademiya nauk USSR (for Kas'yanenko, Markevich). 2. Chlen-  
korrespondent Akademii nauk USSR (for Pidoplichko). 3. Kafedra zo-  
ologii Kharkovskogo zooveterinarnogo instituta (for Lukin).  
(Ukraine--Coreoidea) (Ukraine--Leeches)

KAS'YANENKO, V.G. [Kas'ianenko, V.H.]

A.N.Severtsov's school in Kiev. Pratsi Inst.zool.AN URSR  
18:3-11 '62. (MIRA 16:1)  
(Severtsov, Aleksei Nikolaevich, 1866-1936)  
(Kiev--Zoological research)

KAS'YANENKO, V.G.

The influence of the type of support on the structure and function of the limbs of mammals.

Report to be submitted for the 16th International Zoology Congress  
Washington, D.C., 20-27 Aug 63

KAS'YANENKO, V.G.

Iurii Aleksandrovich Orlov, 1893 - ; on his 70th birthday.  
Arkh. anat. gist. i embr. 45 no. 11: 126-128 N '63.

(MIRA 17:8)

1. Adres avtora: Kiyev, Vladimirskaia ulitsa 55. Institut  
zoologii AN UkrSSR.



KAS'YANENKO, V.I.; KIM, M.P., prof., nauchnyy red.; RATNER, V.I.,  
red.

[Struggle of U.S.S.R. workers for technological independence from  
1926 through 1932] Bor'ba trudiashchikhsia SSSR za tekhnicheskuiu  
nezavisimost' promyshlennosti, 1926-1932 gg. Moskva, Izd-vo  
VPSH i AON pri TsK KPSS, 1960. 65 p. (MIRA 13:6)  
(Russia--Industries)

KAS'YANENKO, Vasilii Ignat'yevich, and. istor. nauk; MAKAROV, I.I.,  
red.; RAKITIN, I.T., tekhn. red.

[Great deed of the party and the people; how the Soviet people  
achieved the technical and economic independence of the  
U.S.S.R.] Velikii podvig partii i naroda; zavoevanie sovet-  
skim narodom tekhniki-ekonomicheskoi samostoiatel'nosti SSSR.  
Moskva, Izd-vo "Znanie," 1962. 46 p. (Novoe v zhizni, nauke,  
tekhnike. I Seriya: Istorii, no.2) (MIRA 15:4)  
(Russia—Economic conditions)

3

L 54555-65 EWT(m)/ENG(m)/EWP(1) PC-4 RNH/RM 24

ACCESSION NR: AP5016713 UR/0286/65/000/010/0016/0016

AUTHORS: Samborskiy, I. V.; Pashkov, A. B.; Saldadze, K. M.; Grachev, L. L.  
Chotverikov, A. F.; Parbafenkov, A. N.; Perevozkina, G. A.; Kas'yanenko, Ye. I.

TITLE: A method for producing ion exchangers. Class 12, No. 170908 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 16

TOPIC TAGS: ion exchanger, chemical production, filler, cotton, fiber

ABSTRACT: This Author Certificate presents a method for producing ion exchangers by mixing (in a determined order) the combined components, heating, holding, cooling, and consolidating the reactive mass, which is finally crumbled and dried. To improve the mechanical, filtering, and absorption properties of the exchangers, a fibrous filler, such as cotton floss, is introduced into the reactive mixture before drying.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)

SUBMITTED: 24Jul64 ENCL: 00 SUB CODE: 00

NO REF SOV: 000 OTHER: 000

Cord 1/1

*KASYANEVICH, A. M.*

USSR/ Engineering - Chain drives

Card 1/1 Pub. 128 - 5/34

Authors : Kasyanevich, A. M., and Volkov, I. G.

Title : Concerning the quality of noiseless chain-drives

Periodical : Vest. mash<sup>34</sup>, 12, 16-18, Dec 1954

Abstract : The design of a new type of a noiseless gear chain-drive with a link feed of 19.05 mm, and a width of 94 mm is discussed. Operational test results of the above mentioned chain drive and its comparison with drives produced by the Chain Factory are given. Illustrations; table.

Institution : .....

Submitted : .....

KAS'YANKOV, A. F.

KAS'YANKOV, A. F. (Khabarov Kray Veterinary Bacteriological Laboratory).  
Poisoning of pigs with cottonseed cake.

So: Veterinariya; 23; 7; July 1946; Uncl.  
TABC.N

~~KAS'YANOV, P.~~

Analysis of the composition of nonfreezing liquid for concrete.  
Stroitel' 9 no.2:5 F '63. (MIRA 16:2)  
(Frost resistant concrete)

KAS'YANKOV, P. P.

Apr 50

USSR/Physics - Aberration  
Electron Microscope

"Computing the Aberration of Electrostatic Lenses  
by the Method of Calculation of Trajectories," P.

P. Kas'yankov

"Zhur Tekh Fiz" Vol XX, No 4, pp 483-488

Kas'yankov sets up practical procedures that are  
rather convenient for computing, by Newton's finite  
differences, etc., the differential foci of an in-  
calculating sagittal and meridional methods for  
finitely fine beam. Shows several methods for

163T106

Apr 50

USSR/Physics - Aberration (Contd)

facilitating calculation of trajectories of elec-  
trons and spherical aberration. Submitted  
8 Feb 49.

163T106

[illegible]



KAS'YANKOV, P. P.

USSR/Physics - Electron Lenses

Jan 52

"The Problem of Calculating an Electron Lens According to Given Condition on Third-Order Aberration," P. P. Kas'yankov

"Zhur Tekh Fiz" Vol XXII, No 1, pp 80-83

Acknowledges the helpful suggestions of A. A. Lebedev. Calculates an electron lens according to the probe method, just as in the case of optical lenses. Proposes a method which will permit one to reduce the problem of calg an electron lens, if only one condition on the 3-order aberration is set up, to the soln of a system of ordinary differential eqs. Submitted 20 Jan 51.

206T104

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110006-3

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110006-3"

USSR/Physics - Electron optics

Card 1/1

Pub 153 - 12/19

FD-3137

Author : Kas'yankov, P. P.

Title : Electron lenses whose spherical aberration is as small as desired

Periodical : Zhur. tekhn. fiz., 25, No 9 (September), 1955, 1639-1648

Abstract : The author expounds a method for calculating electron lenses which permits for any arbitrarily small epsilon greater than 0 to calculate the design for lens whose coefficient of spherical aberration of the third order is less than epsilon and whose field satisfies the usual conditions. The essence of the method consists in the characteristics of the axisymmetric electron lens with the aid of paraxial trajectory of the electron. He notes that previous attempts to calculate lenses with minimum spherical aberration turned out unsuccessful (O. I. Seman, ZhETF, 24, 5, 581, 1953; P. P. Kas'yankov, ZhTF, 23, 3, 531, 1953).

Institution : --

Submitted : March 8, 1954

KAS'YANKOV, P. P.

KAS'YANKOV, P. P. -- "Methods of Calculating Electronic Optical Systems." Leningrad Electrical Engineering Institute imeni V. I. Ulyanov (Lenin), Leningrad, 1956. (Dissertation for the Degree of Doctor of Technical Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

16(1); 24(3,4)

PHASE I BOOK EXPLOITATION

SOV/1614

Kas'yankov, Pavel Petrovich

Teoriya elektromagnitnykh sistem s krivolineynoy os'yu (Theory of the Electromagnetic System With Curvilinear Axis) [Leningrad] Izd-vo Leningr. univ., 1956. 84 p. 320 copies printed.

Sponsoring Agency: Leningrad. Elektrotekhnicheskiy institut.

Ed.: L.A. Kelarev; Tech. Ed.: A.V. Ivanova.

**PURPOSE:** This book is intended for physicists and mathematicians interested in the theory of electromagnetic systems with curvilinear axis.

**COVERAGE:** The book deals with the optics of electromagnetic systems with curvilinear axis and contains certain of the author's results in this field, a short presentation of which was given at the conference of the teaching staff of the Elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina) (Electrical Engineering Institute

Card 1/5

Theory of the Electromagnetic (Cont.)

SOV/1614

imeni V.I. Ul'yanov (Lenin), in April, 1955. Sufficient conditions are derived for the existence of a true image in the form of inequalities. Necessary and sufficient conditions are derived under which the true image is similar to the object. Similarity conditions as well as enlarging formulas are expressed by two solutions of the equation of a paraxial trajectory of an electron taken from the fundamental matrix. The method of calculation of an electromagnetic system with curvilinear axis from given focusing properties in a paraxial region is presented. The problem of aberration of the second kind of a monochromatic beam of trajectories and the problem of a chromatic aberration of the first kind are analyzed; taking into account relativistic corrections of electromagnetic systems with curvilinear axis, and the coefficients of aberrations are derived. Derivation of coefficients is based on equations of the trajectory of electrons. The following Soviet personalities are mentioned in connection with the development of

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Theory of the Electromagnetic (Cont.)

SOV/1614

the theory: I.I. Tsukkerman, G.A. Grinberg, A.M. Strashkevich, and I.M. Pilat. There are 24 references, of which 16 are Soviet, 2 German, 1 French and 5 English.

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Theory of the Electromagnetic (Cont.)

SOV/1614

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Theory of the Electromagnetic (Cont.)

SOV/1614

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References

86

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the coefficients  $a_{11}$ ,  $a_{12}=a_{21}$  (for the system is self-adjointed) and  $a_{22}$  are ex-

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110006-3

Dokl. Akad. Nauk, 108, 813-816 (1956)

CARD 2 / 2

PA - 1239

plicitly mentioned as functions of the potentials.

If  $s$  is a straight line and if the field is symmetrical to it, the aforementioned system of equations may be replaced by the equation

$R'' + TR = 0$  with  $T = (3/16)\phi'^2/\phi^2 + (-e/8m\phi)\psi'^2$ . Here  $e$  and  $m$  denote charge and mass of the electron, and the stroke denotes differentiation with respect to  $s$ . The sufficient condition for the existence of a point of the interval  $(a, b)$  which is conjugated with  $s = a$  is  $\int_a^b (R'^2 - TR^2) ds \leq 0$ . Here  $R(s)$  is a certain twice steadily differentiable function which vanishes at  $s=a$  and  $s=b$ .

$X$  is assumed to denote the matrix of the fundamental system of the solution of the last-named system of equations:

$$X = \begin{vmatrix} x_1 & x_2 & x_3 & x_4 \\ y_1 & y_2 & y_3 & y_4 \\ x_1' & x_2' & x_3' & x_4' \\ y_1' & y_2' & y_3' & y_4' \end{vmatrix} \quad y|_{s=a} = \begin{vmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{vmatrix}$$

In order that the stigmatic picture be similar to the object, it is necessary and sufficient that the following conditions be satisfied:  $\bar{x}_1(b) = \pm x_2(b)$  or  $x_1(b) = \pm y_2(b)$ ,  $y_1(b) = \mp x_2(b)$  or  $x_4(b) = \pm y_3(b)$ ,  $y_4(b) = \mp x_3(b)$ . (similarity condition).

Next, conditions are made for the case that the electromagnetic field projects the plane  $s=a$  in a similar manner on the plane  $s=b$ . The conditions for focussing in the paraxial domain are satisfied by an infinite manifold of electromagnetic fields.

INSTITUTION: Leningrad Electrotechnic Institute "V.I.UL'JANOV-LENIN"

KAS'YANKOV, P.P.

AUTHOR: Kas'yankov, P.P.

51-2-9/15

TITLE: On the electron-trajectory equations in electron-optical systems with curved axis. (Ob uravneniyakh trayektorii elektrona v elektronnoopticheskikh sistemakh s krivolineynoy os'yu).

PERIODICAL: "Optika i Spektroskopiya" (Optics and Spectroscopy) 1957, Vol.3, No.2, pp.169-179 (U.S.S.R.)

ABSTRACT: Theoretical paper. The author derives exact relativistic equations for electron trajectories in an arbitrary electron-optical system with a curvilinear optical axis. He shows that these equations can be simplified on the assumption that only the region close to the optical axis is the considered (paraxial case). In this approximate treatment the author takes into account only the first and second orders of the small quantities  $p$ ,  $q$ ,  $p'$  and  $q'$ , where  $p$  and  $q$  are the Cartesian coordinates of a point in a plane perpendicular to the optical axis and  $p'$ ,  $q'$  are their first derivatives with respect to the third coordinate  $s$ . The trajectory equations are derived by two methods:- (a) starting with the equations of motion in tensor form, and (b) using the electron-optical analogue of the Fermat's principle (variational method). The author critically discusses G.A.Grinberg's (Ref.13) method for obtaining the paraxial electron-trajectory equations in

Card 1/2

*Kas'yankov, P. P.*

51-6-24/25

AUTHOR: Grinberg, G. A.

TITLE: Remarks on the Paper of P. P. Kas'yankov "On the Equations of Electron Trajectories in Electron-optical Systems with a Curvilinear Axis." (Ref.1) (Po povodu stat'i P. P. Kas'yankova "Ob uravneniyakh trayektorii elektrona v elektronnoopticheskikh sistemakh s krivolineynoy os'yu" .)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol. III, Nr. 6, p.673. (USSR)

ABSTRACT: A letter. The fifth chapter of the above paper states that the method, proposed by me (i.e. by Grinberg) in 1942, for derivation of the fundamental electron-optical equations for curvilinear beams (Ref.2) leads allegedly to erroneous results. As shown in Ref.5 these allegations are wrong and they are based on an incorrect identification of a local system of coordinates  $x, y, z$  with a curvilinear system  $s, p, q$ . The equations derived by Kas'yankov in tensor form (Ref.1) lead to more cumbersome calculations, but are nevertheless essentially identical with my equations (Ref.2) in vector form. Since the exact equations of Kas'yankov and my own are identical, it

Card 1/2

51-6-24/25

• Remarks on the Paper of P. P. Kas'yankov "On the Equations of Electron Trajectories in Electron-optical Systems with a Curvilinear Axis."

follows that approximations obtained algebraically from the exact equations are also identical. This does not exclude the possibility of numerical errors in applications of my method (Refs. 3,8). There are 8 Russian references.

SUBMITTED: November 12, 1957.

AVAILABLE: Library of Congress.

Card 2/2

AUTHOR: Kas'yankov, P. P.

57-28-4-38/39

TITLE: ~~On the Letter by G. A. Grinberg, Professor, Corresponding Member, Academy of Sciences, USSR (Reference 1) (Po povodu pis'ma chlena-korrespondenta AN SSSR professora G. A. Grinberga (1)~~

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 4, pp. 915-918 (USSR)

ABSTRACT: The author is of the opinion that Grinberg inexactly characterizes the author's (Kas'yanov) critical remarks concerning the Grinberg method. The author does not contradict the local system of rectangular coordinates introduced by Grinberg, but the not allowable omission of the sign. The sections where this was the case were given in the remarks. It is shown that by the omission of the sign 0 the local system of coordinates is necessarily changed into a curved coordinate system. There are 6 references, all of which are Soviet.

Card 1/2

On the Letter by G. A. Grinberg, Professor,  
Corresponding Member, Academy of Sciences,  
USSR (Reference 1)

57-28-4-38/39

SUBMITTED: November 30, 1957

Card 2/2

AUTHOR: Kus'yankov, P. P.

SOV/20-120-3-16/67

TITLE: On the Conditions for the Existence of a Stigmatic Image in  
Electrooptical Systems Having a Curvilinear Axis (Ob  
usloviyakh sushchestvovaniya stigmaticheskogo izobrazheniya  
v elektronnoopticheskikh sistemakh s krivolinейnoy os'yu)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 3, pp. 497-500  
(USSR)

ABSTRACT: The present paper determines the conditions which are adequate  
for the existence of a stigmatic image in the paraxial range  
of a system with curvilinear axis. First the method of de-  
nomination used here is explained. On the basis of the theo-  
rem developed by Poincaré (Punkare) it is possible to re-  
present the quantities representing the paraxial trajectories  
in form of rows. A method of attaining rapid convergence of  
these rows is mentioned in short. The system of equations in  
first approximation for systems differing only little from  
an axially symmetric system is written down. This system of  
equations is suited also for electron-optical systems, the  
deviations from the axially-symmetric system of which are  
no longer small. The author here uses the following equation:

Card 1/3

SOV/20-120-3-16/67

On the Conditions for the Existence of a Stigmatic Image in Electronoptical Systems Having a Curvilinear Axis

$$r'' + \left( \frac{2}{16} - \frac{\Phi'^2}{\Phi^2} + \frac{e}{8\pi\Phi} \Psi'^2 \right) r = 0; \text{ also the necessary boundary}$$

conditions are mentioned. The fundamental matrix of the system of first approximation is then written down. The solutions of the system for the next-higher approximations are determined by the method of varying random constants in form of quadratures. The conditions for the stigmatic image, which are found by calculation, are explicitly written down. The results obtained may also be applied to problems connected with the theoretical investigation of the effect produced by a stigmatizer. There are 5 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy elektrotekhnicheskii institut im. V. I. Ul'yanova (Lenina)  
(Leningrad Institute of Electrical Engineering named V. I. Ul'yanov (Lenin))

PRESENTED: February 22, 1958, by A. A. Lebedev, Member, Academy of Sciences, USSR  
Card 2/3



On the Conditions for the Existence of a Stigmatic Image in Electronoptical  
Systems Having a Curvilinear Axis

SOV/20-120-3-16/67

SUBMITTED: February 13, 1958

1. Electron optics--Mathematical analysis
2. Electron optics  
--Properties
3. Approximate computation--Applications

Card 3/3

24(3, 4)

SOV/170-59-4-15/20

AUTHOR: Kas'yankov, P. P.

TITLE: On Quasisymmetrical Electron-Optical Systems (O kvazisimmetrichnykh elektronnoopticheskikh sistemakh)

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 4, pp 103-107 (USSR)

ABSTRACT: The author points out some errors in the papers of Wendt [Ref 2] and Tsukkerman [Ref 3] dealing with the systems with axial symmetry. Then he proves the following statement: an electromagnetic system with a curvilinear axis, which satisfies the condition of quasisymmetry (Wendt's condition) possesses the property of axial symmetrical systems, i.e., that every real image in such a system is stigmatic and similar to an object. The author shows that every quasisymmetrical system can be considered as a particular case of an orthogonal system. However, quasisymmetrical systems are of interest by themselves in view of some of their important properties which are discussed by the author.

Card 1/2

On Quasisymmetrical Electron-Optical Systems

SOV/170-59-4-15/20

There are 5 references, 2 of which are Soviet, 2 English and  
1 German.

ASSOCIATION: Elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina)  
(Electro-Engineering Institute imeni V.I. Ul'yanov (Lenin);  
Leningrad.

Card 2/2

AUTHOR: Kas'yankov, P. P.

SOV/48-23-6-10/28

TITLE: On a Method of Theoretical Investigation of Stigmatizer Properties (Ob odnom metode teoreticheskogo issledovaniya svoystv stigmatizatora)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 6, pp 711 - 715 (USSR)

ABSTRACT: In the introduction to the present paper the causes of axial astigmatism are briefly discussed, and the stigmatizing fields are given as the aim of the investigation to be carried out. The system of equations characterizing the focusing properties of the electron-optical system are given (1) and its solutions are obtained by means of the differential equation (3). The condition for the correction of axial astigmatism in a certain plane are then given for an electrostatic system, and these conditions are generalized for a larger interval. The conditions for the stigmatic image by a stigmatizing field are investigated and the similarities of the conditions established here are compared with those for the correction of the aberration in axially-symmetric systems; the correction method is briefly

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On a Method of Theoretically Investigation of  
Stigmatizer Properties

SOV/48-23-6-10/28

outlined. The method introduced may be used for the purpose of calculating the tolerances of the produced particles and their adjustment in the presence of a stigmatizer. The author thanks A. A. Lebedev for his valuable advice. There are 5 references, 3 of which are Soviet.

Card 2/2

9.3140

S/044/60/000/009/013/021  
C111/C222

AUTHOR: Kas'yankov, P.P.

TITLE: Some Questions of the Theory of the Method of the Optical Bench  
in Electron Optics

PERIODICAL: Referativnyy zhurnal. Matematika, 1960, No.9, p.102  
Abstract No.10441. Izv.Leningr.elektrotekhn.in-ta, 1957,  
vyp 31, pp.144-155

TEXT: The author investigates the question of the generation of axial  
symmetrical electronic fields with a given potential on the axis. It is  
shown that for a given potential distribution on the axis the potential  
in the space is determined uniquely. General remarks on the determination  
of the potential of a system of conducting rings with a common axis  
(optical bench) are given. ✓B

[Abstracter's note: The above text is a full translation of the  
original Soviet abstract.]

Card 1/1

S/051/61/011/006/007/012  
E032/E114

AUTHOR: Kas'yankov, P.P.

TITLE: Calculations of cathode-lens aberrations

PERIODICAL: Optika i spektroskopiya, v.11, no.6, 1961, 765-767

TEXT: The well known formulas describing first order chromatic aberrations and third order geometric aberrations of cathode lenses contain algebraic fractions (V. Glazer, Ref.1; Fundamentals of Electron Optics, GITTL, Moscow, 1957). At low electron energies, the denominators of these fractions become very small, with the result that the fractions become large and inconvenient in calculations. The present author reports algebraic formulas which do not contain such fractions and are therefore convenient in the calculation of the aberrations of large-aperture beams and give the aberrations in an arbitrary plane. They can be used to evaluate the aberrations of arbitrary axially symmetric systems, including reflecting systems. There are 2 references: 1 Soviet-bloc and 1 translation into Russian from a non-Soviet publication.  
SUBMITTED: January 9, 1961  
Card 1/1

9.3140

24802  
S/048/61/025/006/001/010  
B117/B212

AUTHORS: Kas'yankov, P. P. and Dutova, K. P.

TITLE: The problem of aberrations in electron-optical systems

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 25, no. 6, 1961, 665 - 667

TEXT: The present paper has been presented at the 3rd All-Union Conference on Electron Microscopy, held in Leningrad from October 24 to 29, 1960. The authors tried to find an explanation why known formulas yield wrong results for the calculation of aberrations of a homogeneous magnetic field. The main condition for applying formulas for 3rd-order aberrations is found to be fulfilled if the electron beams involved in producing an image of each point of an object are limited. In various electron-optical systems, such as electron microscopes, electron beams are limited by special stops similar to that in light-optical systems. These stops do not affect the calculation of the aberration of electron beams. But the beams emerging from different points of the object have to be characterized by the same parameters. Therefore, when calculating

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B117/B212

The problem of aberrations ...

the aberration of a system with stops, it is considered to be a special case of a system without stops. The main beams will run parallel to the optical axis if the magnetic field is homogeneous. The homogeneous magnetic field cannot be considered as a special case of systems with stops since the main beams of the latter intersect with the optical axis. The formulas derived in textbooks for the aberration coefficients assume that the beams are limited by special stops. It can be seen from the facts mentioned above that such formulas cannot be used to calculate the aberration of systems without stops and, especially, not that of a homogeneous field. Starting from known equations for electron trajectories in a Cartesian coordinate system at rest, where the z-axis coincides with the axis of symmetry, the authors have found the following 3rd-order formulas for the aberration coefficients:

$$\left. \begin{aligned} \Delta x &= B_1(x_0^3 + y_0^3)x_0' + x_0[F_1(3x_0^2 + y_0^2) + \\ &\quad + 2f_1x_0'y_0'] + [(2C_1 + D_1)x_0' + c_1y_0']x_0^2 + E_1x_0^3; \\ \Delta y &= B_1(x_0^3 + y_0^3)y_0' + x_0[2Fx_0'y_0' + f_1(x_0^2 + \\ &\quad + 3y_0^2)] + D_1y_0' + c_1x_0']x_0^2 + e_1x_0^3. \end{aligned} \right\} \quad (4)$$

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24802

S/048/61/025/006/001/G10

B117/B212

The problem of aberrations ...

The calculation of aberration in a homogeneous magnetic field from these formulas is found to be correct. The formulas have the same form as the formulas (120.5) presented in chapter 18 of the monograph by V. Glaser (Ref. 1: Osnovy elektronnoy optiki (Fundamentals of electron optics), translation into Russian, GITTL, M., 1957). The difference lies in the fact that the initial data in the formulas (120.5) are not expressed in a stationary but in a rotating system. A transformation of the formulas (120.5) to the initial data in a stationary system yields a relation between the coefficients  $B_1$ ,  $C_1$ ,  $D_1$  from (4) and the quantities  $B_r$ ,  $C_r$ ,  $D_r$  as obtained by Glaser. The authors thank A. G. Vlasov, Y. V. Vorobiyev and O. I. Seman for discussing the paper. There are 2 Soviet-bloc references.

Card 3/3

KAS'YANKOV, P.P.

Calculating the aberration of cathode lenses. Opt. i spektr. 11  
no.6:765-767 D '61. (MIRA 14:11)

(Aberration)

(Cathodes)

DUTOVA, K.P.; KAS'YANKOV, P.P.

Calculation of electron-optical systems with corrected astigmatism.  
Izv. AN SSSR. Ser. fiz. 27 no.9:1127-1130 S '63. (MIRA 16:9)  
(Electron optics)

KAS'YANKOV, P.P.

[Integral calculus of functions of a single variable; a  
textbook] Integral'noe ischislenie funktsii odnogo pe-  
remennogo; uchabnoe posobie. Leningrad, Leningr.  
tekhnolog. in-t im. Lensoвета. Pt.3. 1963. 62 p.  
(MIRA 17:11)

KAS'YANKOV, P.P.

[Analytic geometry; textbook for students majoring in technical chemistry and engineering, part one] Analiticheskaya geometriya; uchebnoe posobie dlia studentov khimiko-tekhnologicheskikh i mekhanicheskikh spetsial'nostei. Chast' pervaya. Leningrad, Leningr. tekhnolog. in-t, 1964. 102 p. (MIRA 18:12)

L 36996-66 EWT(1) IJP(c) AT

ACC NR: AP601575

(A, N)

SOURCE CODE: UR/0048/66/030/005/0735/0738

AUTHOR: Gurbanov, G. G.; Kas'yankov, P. P.

62  
B

ORG: none

TITLE: Concerning the calculation of electrostatic electron-optical systems with correction of astigmatism /Report, Fifth All-Union Conference on Electron Microscopy held in Sverdlovsk 6-8 July 1965/

SOURCE: AN SSSR: Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 735-738

TOPIC TAGS: electron optics, electrostatic field, aberration, optic resolution

ABSTRACT: This paper is based on earlier work by P.P.Kas'yankov and collaborators (Zh. tekhn. fiz., 22, 80 (1952)); Izv. AN SSSR. Ser. fiz., 27, 9, 1127 (1963)); Optiko-mekhanicheskaya promyshlennost', 11 (1964)) on the calculation of electron-optical systems with correction of different third order aberrations; notation and formulas from the earlier work are used freely without redefinition or derivation, and the present paper cannot be understood without reference to the earlier papers. In the earlier work an auxiliary function whose integral along the optic axis from the object point to the image point vanishes was used to reduce the calculation of the system to the solution of a set of ordinary differential equations. In the present paper there are briefly discussed two different designs that arise from different choices for the

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ACC NR: AP601573

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auxiliary function. The auxiliary function, which in both cases involves disposable parameters, is written down, as are the differential equations. The differential equations were solved with the aid of a computer. In one design the resolution (radius of the circle of confusion) is 0.06 cm at an object distance of 1.5 cm and an aperture angle of  $60^\circ$ ; in the other design all the third order aberrations are less than  $10^{-7}$ , there is a real image, and the magnification is less than 0.01. Orig. art. has: 16 formulas and 2 figures.

SUB CODE: 20/

SUM DATE: 00/

ORIG REF: 004/

OTH REF: 000

Card 2/2 *JS*



KAS'YANOV, A., aspirant

Some conclusions about production organization on state dairy  
farms. Zhivotnovodstvo 20 no. 10:32-35 0 '58. (MIRA 11:10)

1. Institut ekonomiki AN SSSR.  
(Dairying)

KAS'YANOV, A., nauchnyy sotrudnik

Claws and drag harrow. Nauka i pered.op. v sel'khoz. 9  
no.3:58 Nr '59. (MIRA 12:5)  
(Farm equipment)

KAS'YANOV, A.

Interpret problems of the monetary payment of wages on collective farms more profoundly ("Economic efficiency of monetary wages on collective farms" and "How to make the transition to monetary wages" by K.A. Okhapkin. Reviewed by A.Kas'ianov). Sots.trud 6 no.3:150-153 Mr '61. (MIRA 14:3)  
(Collective farms—Income distribution) (Okhapkin, K.A.)

KAS'YANOV, A.

At the Skopin Glass Factory. Za indus.Riaz. no.2:14-16 D '61.  
(MIRA 16:10)

1. Glavnyy inzh. Skopinskogo stekol'nogo zavoda.

KAS'YANOV, A.

Features of kiln construction. Stroitel' no.10:29 0 '61.  
(Kilns) (Firebrick) (MIRA 14:11)

KAS'YANOV, A.

Characteristics of brickwork in furnace construction. Pozh.delo  
8 no.4:11 Ap '62. (MIRA 15:4)  
(Furnaces--Construction)

ZINOV'YEV, B.S.; KAS'YANOV, A.F.; LAPSHIN, I.I.; SHARAFUTDINOV, M.;  
LUZYANIN, D. Kh.; BRYUSHKOV, P.N.; SAVCHENKO, P. Ye.;  
KOSOVER, S.I.; SHUL'MAN, I.Ye.; LAPSHIN. I.I.

Information. Veterinariia 38 no.8:91-96 Ag '61 (MIRA 18:1)

KAS'YANOV, A. F.

KAS'YANOV, A. F. (Khabarov Kray Veterinary Bacteriological Laboratory). Winter parasitic existence of the ticks of the family Ixodidae on agricultural animals in Khabarov Krai.

So: Veterinariya; 24; 10; October 1947; Uncl.  
TABCON



KAS'YANOV, A. N. --

"The Study of the Primary Immunological and Cultural Biological Characteristics of Brucella suis Strain No 61." Cand Vet Sci, Moscow Veterinary Acad, Moscow, 1953. (RZhBiol, No 2, Sep 54)

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SO: Sum. No. 481, 5 May 55

KAS'YANOV, A. I.

Kas'yanov, A. M. -- "The Center of the City of Khar'kov." Acad of Archi-  
tecture of the Ukrainian SSR, Inst of City Construction, Kiev, 1955 (Disser-  
tation for Degree of Candidate in Architectural Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

KAS'YANOV, A.M.

ARTEMCHUK, Vsevolod Ivanovich, kandidat tekhnicheskikh nauk; KAS'YANOV, A.M.,  
kandidat arkhitektury, redaktor; ALEKSANDROVSKIY, A., redaktor;  
IOAKIMIS, A., tekhnicheskii redaktor.

[Technological and economic indexes of city construction] Gradostroi-  
tel'nye tekhniko-ekonomicheskie pokazateli. Pod obshchei red. A.M.  
Kas'ianova, Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR, 1956.  
207 p.

(MIRA 10:6)

(Ukraine--City planning)  
(Ukraine--Municipal engineering)

KAS'YANOV, A.N.; BURDOV, A.; PODKOPAYEV, V.M.; KOTENKO, B.;  
SAMARYANOV, M.B.

In the Soviet Union. Veterinariia 39 no.10:92-96 0 '62.  
(MIRA 16:6)  
(Veterinary medicine)

KAS'YANOV, A.N.; KRATIVNER, L.M.; LUZYANIN, D.; SHARABRIN, I.;  
KHAVCHENKO, D.; APANAS'YEV, Ya.I.; ABUSHAYEV, I.Sh.;  
IMANOV, E.D.

Information and brief news. Veterinariia 40 no.4:87-93  
Ap '63. (MIRA 17:1)

GONIKMAN, Iosif Grigor'iyevich; KOVALKIN, Ivan Dmitriyevich; GLADKOV,  
V.A., red.; KAS'YANOV, A.P., red.; BARANOV, I.A., tekhn. red.

[In the name of a lofty goal] Vo imia vysokoi tseli. Mur-  
mansk, Murmanskoe knizhnoe izd-vo, 1960. 33 p. (MIRA 16:5)  
(Murmansk Province--Fisheries)

GRIBANOV, P.G.; LAPINA, A.A. METELITSYN, G.T.; MORAR', I.M.;  
NIZHENKO, T.A.; RYBNIKOV, N.N.; SEL'MANOVICH, L.V.;  
KAS'YANOV, A.P., red.; BARANOV, I.A., tekhn. red.

[Aid to the study of the economics of the trawler fleet]  
V pomoshch' izuchaiushchim ekonomiku tralovogo flota.  
Murmansk, Murmanskoe knizhnoe izd-vo, 1960. 76 p.  
(MIRA 16:5)

(Trawls and trawling--Accounting)  
(Index numbers (Economics))

DECEASED

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KAS'YANOV, A.P., red. [deceased]; BELYAYEV, N.F., tekhn.  
red.

[Kandalaksha State Preserve] Kandalakshskii gosudarstven-  
nyi zapovednik; nauchno-populiarnyi ocherk. Murmansk, Mur-  
manskoe knizhnoe izd-vo, 1961. 87 p. (MIRA 16:6)

1. Kandalakshskiy gosudarstvennyy zapovednik.  
(Kandalaksha Preserve)



KAS'YANOV, A. V. I DYENISOV, A. P.

30458

Isslyedovaniye parovoznykh dyeflyektorov na modyelyakh. Trudy  
mosk. elyektromyekhan. in-ta inzyenyeroz Z-D. Transport im.  
dzyerzinskogo, Vyp. 59, 1949, S. 208-34.

SO: Letepis' No. 34

KAS'YANOV, A. V.

"Utilization of High Pressure Steam in Locomotives" in the book Some Problems on the Thermodynamic Research In Thermotechnics, Mashgiz, 1954.

KAS'YANOV, A.V., kandidat tekhnicheskikh nauk.

Use of high-pressure steam in locomotives. [Trudy] MVTU no.27:  
98-128 '54. (MLRA 7:11)  
(Locomotives)

KAS'YANOV, A.V., kandidat tekhnicheskikh nauk, dotsent.

~~Investigation of spark extinguishers for locomotives.~~

Investigation of spark extinguishers for locomotives. [Trudy]  
MVTU no.43:85-92 '55. (MLRA 9:8)

(Locomotive sparks)

KAS'YANOV, A.V., kandidat tekhnicheskikh nauk.

Investigating the spark extinguishing process in locomotive boilers.

[Trudy] MVTU no.51:50-63 '55.

(MLRA 9:8)

(Locomotive sparks)

⑤

SHELEST, Pavel Aleksseyevich, kand.tekhn.nauk [deceased]; CHERNOMORDIK, B.M., kand.tekhn.nauk, retsenzent; KAS'YANOV, A.V., kand.tekhn.nauk, red.; BASENTSYAN, A.A., red.izd-va; UVAROVA, A.F., tekhn.red.; EL'KIND, V.D., tekhn.red.

[Free-piston gas generators] Bezval'nye generatory gazov.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.  
379 p. (MIRA 13:11)

(Gas producers)

KAS'YANOV, A.V., kand.tekhn.nauk; RADIN, Yu.Ye., kand.tekhn.nauk;  
KHIL'KOVSKAYA, Ye.P., inzh.

Aerodynamic investigation of the elements of the gas-turbine loco-  
motive air preheater. Trudy TSNII MPS no.187:110-126 '60.  
(MIRA 13:11)

(Gas-turbine locomotives)



KAS'YANOV, A.V.; IVANOV, V.I.; KHIL'KOVSKAYA, Ye.P.; SERGEYEV, A.A.;  
FILIPPOVA, L.S., red.; GROMOV, Yu.V., tekhn.red.

[Heat exchange systems of series N60 a.c. electric locomotives]  
Teploobmennye ustroistva elektrovozov peremennogo toka serii  
N60. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei  
soobshchenia, 1961. 22 p. (MIRA 15:2)  
(Electric locomotives--Cooling)

*KAS'YANOV, A.V.*

Report presented at the Conference on Heat and Mass Transfer,  
Moscow, USSR, 5-10 June 61.

MM-2372  
39

270. V. I. Borovoy, I. E. Toms, Fusion of Bodies at High Superheated Gas Flow.
271. A. J. Ede, The Heat Transfer Coefficient for Flow in a Pipe.
272. B. I. Belyom, L. S. Shvetsko, Experimental Investigation of Film and Intermediate Film at Heated Air Flow over the Solid Wall.
273. A. E. Devos, On Some Results of the Investigation of Heat Transfer by Heated Gas at Natural Convection.
274. L. S. Ginzburg, O. I. Polyakova, Heat Transfer at the Process of Inductive-Convective Heating by Heated Fluid.
275. V. A. Sam, Influence of the Mass Transfer Coefficient on Vapor Evaporation Distribution in the Assembly of the Vapor-Substrate Inter-cooled Packed.
276. V. I. Shchegolev, S. P. Kiselevsky, V. I. Sidorov, Investigation of Heat Removal by Liquid with Heat Acquire on Pools of Heat Heat Fuel Elements.
277. E. M. Pustelner, Some Principal Problems of Critical Methods of Heat Transfer Surface Investigation.
278. P. I. Bortnitskiy, Application of the Thermodynamic Principles for Heat Transfer Calculations.
279. V. M. Medvedev, Generalization of the Newton Law of Cooling of Bodies.
280. V. K. Bobrovskiy, Particularities of Heat Transfer through the Wall with Longitudinal Film at Surface Cooling.
281. A. V. Krasovskiy, Investigation of Convective Heat Transfer in Computed Flow with Film.
282. C. J. Schaeffer, Some Problems of Heat and Mass Transfer Studied in the National Research Institute of Heat and Mass Transfer.
283. I. T. Pivovarov, Investigation of Heat Transfer between Gas and Solid Surface by Means of Interference Film on the Surface.
284. M. V. Bulykov, S. S. Dubinin, The Theory of Natural and Convective Radiation of an Evaporating Droplet.
285. E. L. Kropotkin, M. E. Shchegolev, Critical Heat Flow at Water Boiling in Pipes.
286. I. L. Kostin, Investigation of the Correspondence State Law for Heat Transfer Calculation at Boiling of a Liquid.

YEGOROV, Ye.N.; KAS'YANOV, B.L.

Intensive transformations of seashores caused by the advancement  
or river deltas and the construction of piers. Trudy Inst. okean.  
53:42-51 '61. (MIRA 15:2)

(Coast changes)

KAS'YANOV, B.L.

Discontinue the holding of canned food in thermostats. Kons.i  
ov.prom. 17 no.10:26-27 0 '62. (MIRA 15:9)

1. Temryukskiy konservnyy zavod.  
(Canning industry--Quality control)

USSR/Cultivated Plants - Potatoes, Vegetables, Melons.

1.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44105

Author : Kas'yanov, F.M.

Inst : -

Title : Potato, Trailing and Vegetable Cultures Under the Protection of Forest in Semi-Desert.

Orig Pub : S. Kh. Ibovolzh'ya, 1957; No 8, 52-53.

Abstract : Many years of experimentation at the Bogdinsk experimental station (Astrakhanskaya Oblast' has shown that under the protection of forest strips (belts) the average water-melon yield in dry and very dry years in the spaces between the strips amounted to 97 centners/ha compared to 33 centners/ha in the open steppe. In more favorable years the yield was 139 and 52 centners/ha respectively. The water-melon crop of the first grade (by weight) was 87-93% and 32-62% respectively. The ripening of the watermelon

Card 1/2

- 56 -

KAS'YANOV, F.M., kand.sel'skokhozyaystvennykh nauk

Practices in the afforestation by planting in clusters in the  
Caspian Sea region. Agrobiologiya no.6:905-911 N-D '62.  
(MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut agrolesome-  
lioratsii, g. Volgograd.  
(Caspian Sea region—Afforestation)

KAS'YANOV, F.M., kand.sel'skokhoz.nauk (Volgograd)

Green umbrellas at the service of sheep farming. Priroda 54  
1963-65 P 165. (MIRA 18:20)

KAS'YANOV, G.I.

Hydrodynamics

Professor I.I. Agroshekin's formula for Chezy's coefficient C, Gidr. stroi. 21, No. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, July 195~~2~~<sup>3</sup>, Uncl.



KAS'YANOV, I., ekonomist

Supplying spare parts. Avt.transp. 37 no.3:47 Mr '59.

(MIRA 12:4)

1. Pologskaya avtotransportnaya kontora Zaporozhskoy oblasti.  
(Automobiles--Apparatus and supplies)

AUTHOR: Kas'yanov, I., Director of School SOV/27-58-11-13/29  
TITLE: Day of Engineering (Den' tekhniki)  
PERIODICAL: Professional'no - tekhnicheskoye obrazovaniye, 1958,<sup>15</sup> Nr 11,  
p 16 (USSR)  
ABSTRACT: The Uchilishche mekhanizatsii sel'skogo khozyaystva Nr 6 Rostovskoy oblasti (Agricultural Mechanization School Nr 6, Rostov Oblast ) has a great stock of machinery. On the "Day of Engineering", the students must carry out the entire technical maintenance program required. The author points out that the training program of the school, among other subjects, also contains one called "Machines Used in Animal Husbandry". He tells of the practical training given to the students in kolkhozes and sovkhoses, of the harvesting work performed by students on combines, and of the good work performed by the students. There are 3 photos.

1. Industrial training    2. Personnel Performance

Card 1/1

KAS'YANOV, I.

Need for a change in the fuel supply system for motor vehicles.

Avt.transp.39 no.2:17 F '61.

(MIRA 14:3)

(Motor vehicles—Fuel systems)

BIRYUKOV, F. (Dnepropetrovsk); NAYKIN, V. (Dnepropetrovsk); KAS'YANOV,  
I. (Dnepropetrovsk)

Deivce for the unloading of containers. Sov. torg. 35 no.5:  
57-58 My '62. (MIRA 15:5)

(Loading and unloading)

KAS'YANOV, I. M.

K izucheniyu diagnostiki i epizootologii skryabinotrematoza ovets,  
"Works on Helminthology" on the 75th Birthday of K. I. Skryabin, Izdat, Akad.  
Nauk, SSSR, Moskva, 1953, page 306.  
Helminthology Laboratory, AS USSR

KAS'YANOV, I.S.

Biology of the trematode *Skrjabinotrema ovis* (with elements of diagnosis and the epizootiology of the disease). Trudy Gel'm.lab. 7:386 '54.  
(Trematoda) (MIRA 8:5)

KAS'YANOV, I.S.; ELPAT'YEVSKAYA, G.N.

Effect of external temperature on the course of radiation sickness. Vest.rent. 1 rad. no.4:11-14 J1-Ag '55(MLRA 8:12)

1. Iz radiologicheskogo otdela (zav.-prof. A.V.Kozlova)  
Gosudarstvennogo nauchnoissledovatel'skogo instituta rent-  
genologii i radiologii imeni V.M.Molotova (dir. I.G.Lagunova)  
(RADIATION SICKNESS, experimental  
eff. of external temperature on course, in rats)  
(TEMPERATURE, effects  
on course of exper.radiation sickness in rats)

KASYANOV I. S.  
EXCERPTA MEDICA Sec 14 Vol 12/11 Radiology Nov 58

1837. INTUSSUSCEPTION AS A COMPLICATION OF RADIATION SICKNESS  
(Russian text) - Zuikova E. A. and Kasyanov I. - VESTN. RENTGEN-  
OL. RADIOL. 1957, 32/5 (89-92) Tables 1 Illus. 4

The digestive tract is highly sensitive to ionizing radiation and the changes taking place in it have a prominent place in the clinical picture of radiation sickness. Besides disturbances of secretion, digestion and absorption and a marked increase in permeability of the intestinal wall, the motor function is deranged. These changes find their clinical expression in nausea, vomiting, colicky pains and diarrhoea. Marked disorders of the motor function can lead to intussusception. The authors report on 3 cases of intussusception of the small and large bowels in dogs who had received a total X-ray dose of 500 r. Acute radiation sickness in these animals ran a more severe and rapid course than in the controls. All cases ended in death on the 6-10th day after irradiation with symptoms of intestinal obstruction. Morphological changes in the dead animals were typical of acute radiation sickness and differed from the irradiated control cases by more marked dystrophic changes in the liver, kidneys and heart. (XIV, 9)

*Radiology Dept, Sci Res Inst of  
Radiology & Roentgenology*



CHAYKOVSKAYA, M.Ya.; KAS'YANOV, I.S.; VAYSBERG, G.Ye.

Use of bicillin and oxytetracycline in the treatment of acute forms of radiation sickness [with summary in English]. Antibiotiki 3 no.6:92-95 N-D '58. (MIRA 12:2)

1. Radiologicheskiy otdel (zav. - prof. A.V. Kozlova) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenoradiologii i kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(PENICILLIN, effects, benzathine penicillin G, on acute radiation sickness in dogs (Rus))

(OXYTETRACUCLINE, eff. on acute radiation sickness in dogs (Rus))

(ROENTGEN RAYS, eff. of benzathine penicillin G & oxytetracycline on massively-irradiated dogs (Rus))

SERGEL', O.S.; BIRUKOV, I.N.; KAS'YANOV, I.S.; SVIRIDOV, N.K.

Dynamics of luminescence of the internal organs of animals in vivo  
following the action of ionizing radiation. Preliminary report.  
Lab. delo 7 no.1:5-7 Ja '61. (MIRA 14:1)

1. Radiologicheskiy otdel (zav. - prof. A.V. Kozlova) Gosudarstvennogo  
nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta  
Ministerstva zdoravookhraneniya RSFSR i kafedra nauchnoy fotografii  
i kinematografii (zav. - chlen-korrespondent AN SSSR prof.  
K.V. Chibisov) Moskovskogo gosudarstvennogo universiteta.  
(RADIOACTIVE TRACERS) (FLUORESCENCE)

.. (VISCERA)

KASYANOV, I.S. (Moskva); SVIRIDOV, N.K. (Moskva); ZVEREV, M.P. (Moskva)

Comparative biological effectiveness of the action of  $\gamma$ -radiation from 25 Mav. betatron and 180 kw X-radiation. Trudy TSentr. nauch.-issl. inst. rentg. i rad. 11 no.1:36-41 '64.  
(MIRA 18:11)

KAS'YANOV, I.S.; VAYSEBERG, G.Ye.

Compound use of antibiotics during treatment of complex lesions. Antibiotiki 8 no.1:57-58 Ja'63. (MIRA 16:6)

1. Radiologicheskiy otdel (zav. - prof. A.V.Kozlova)  
Nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta i kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachey.  
(RADIATION SICKNESS) (BURNS AND SCALDS)  
(ANTIBIOTICS.)

KAS'YANOV, I.S., kand.biol. nauk; SVIRIDOV, N.K., kand. biol. nauk;  
ZUYKOVA, Ye.A., prof.; VASIL'yeva, I.G. (Moskva)

Clinicohematological and morphological changes in a combination of lesions treated with a rapidly congealing plastic mass. Vrach. delo no.9:84-88 S'63. (MIRA 16:6)

1. Kliniko-eksperimental'naya laboratoriya po aprobatsii novykh radioaktivnykh preparatov (zav. - prof. V.V.Alpatov) nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta Ministerstva zdravookhraneniya RSFSR.  
(BURNS AND SCALDS) (PLASTICS IN SURGERY)  
(RADIATION SICKNESS)

POLIKARPOCHKIN, V.V.; KAS'YANOV, I.V.; UTGOF, A.A.

Geochemical prospecting for east Transbaikalian complex metal  
deposits based on channel silts, surface and ground waters.

Trudy VITR no.1:46-73 '58. (MIRA 12:1)  
(Transbaikalia--Geochemical prospecting)

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SOV/112-59-21-44825

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Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 21, p 170  
(USSR)

AUTHOR: Kas'yanov, I.V.

TITLE: On the Problem of Calculating Non-Symmetrically Truncated Para-  
bolic Mirrors ✓

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 18, pp 34-47

ABSTRACT: By the quasi-optical method is shown, that in order to obtain the maximum directive coefficient of an antenna, at a given width of its directional diagram, an optimum field distribution over the two main planes of the antenna aperture must be realized. On this basis the efficiency factor of the mirror surface, the tilt angle of the irradiator to the reflector, the parameters of the irradiator and the directive coefficient are determined. It is shown graphically that the values obtained are but slightly affected by the indices of approximation of the directional diagram of the irradiator. The course of the calculation of non-symmetrically truncated parabolic mirrors is given. And a numerical example is ✓

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SOV/112-59-21-44825

On the Problem of Calculating Non-Symmetrically Truncated Parabolic Mirrors

considered: At given  $\lambda = 3.2$  cm; width of the directional diagram on a half-power level in a horizontal plane  $4.2^\circ$ , in a vertical plane  $\sim 7.9^\circ$ ; directive coefficient not lower than 750. The calculation for this case has shown that the horizontal aperture of the mirror is  $\sim 530$  mm, the vertical aperture  $\sim 284$  mm, the tilt angle of the irradiator to a horizontal plane  $\sim 31^\circ$ , focal length  $f = 196$  mm; directive coefficient  $\sim 820$ . An experimental model of an antenna with the above parameters had a directive coefficient  $\sim 856$ . The methods of calculation of non-symmetrically truncated mirrors was developed in connection with the design of multiband antennas.

V.I.M.

Card 2/2



TIKHONIN, I.Ya., professor; ~~KAS'YANOV, I.Z.~~, starshiy nauchnyy sotrudnik;  
VAGANOVA, N.T., mladshiy nauchnyy sotrudnik; KUTEPOVA, N.I.,  
mladshiy nauchnyy sotrudnik

Peculiarities of radiation sickness complicated by surgical  
intervention in feci of the abdominal cavity under morphine and  
ether anesthesia. Vest.rent i rad. 31 no.1:27-30 Ja-F '56. (MLRA 9:7)

1. Iz radiologicheskogo otdela (zav.-prof. A.V.Kozlova) Gosudar-  
stvennogo nauchno-issledovatel'skogo instituta rentgenologii i  
radiologii imeni V.M.Moletova (dir.-dotsent I.G.Lagunova)

(ROENTGEN RAYS, inj. eff.)

(RADIATION SICKNESS, exper.

surg. of abdom. cavity with morphine & ether anesth.)

(MORPHINE, anesth. and analgesia

in surg. of abdom. cavity in exper. radiation sickness)

(ETHER, ETHYL, anesth. and analgesia

same)

KAS'YANOV, K., mekhanik

This is not our business, write to the economic council. Izobr.  
i rats. no.1:27 Ja '62. (MIRA 14:12)

1. Sovkhoz "Vinogradnyy" Krymskoy oblasti.  
(Crimea--State farms)

KAS'YANOV, L.H., inzh.; LIPOVTSOV, L.Ya., inzh.; LOSHAK, S.B., inzh.  
RAYEV, D.Kh., inzh.; GIBENYA, G.A., inzh.; KUCHNIK, G.F.,  
kand. tekhn. nauk

Load drop on the 200 kw. unit with subsequent loading.  
Toploenergetika 8 no. 12:44-49 0 '61. (S.L. 14:10)

1. Gosudarstvennyy trest po organizatsii i ratsionalizatsii  
elektrostantsiy i Zmiyevskaya gosudarstvennaya rayonnaya  
elektricheskaya stantsiya.  
(Steam turbines--Testing)

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